

JOHN ASHCROFT
Governor

G. TRACY MEHAN III
Director



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

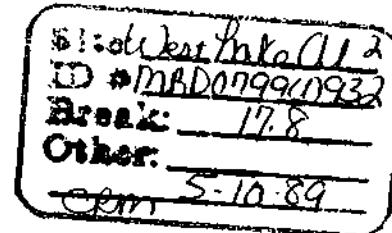
P.O. Box 176
Jefferson City, MO 65102

Jim Carney

Division of Energy
Division of Environmental Quality
Division of Geology and Land Survey
Division of Management Services
Division of Parks, Recreation,
and Historic Preservation

CERTIFIED MAIL - P711579541

May 10, 1989



Mr. William Carney
West Lake Quarry
13570 St. Charles Rock Rd
Bridgeton, MO 63044

Dear Mr. Carney:

RE: Addendum to West Lake Sanitary Landfill, St. Louis County
Permit Number: 118912

The Missouri Department of Natural Resources (MDNR) - Waste Management Program (WMP) is updating your groundwater monitoring program effective upon receipt of this letter. This is considered an addendum to the West Lake Sanitary Landfill operating permit.

Changes have been made to the format of the monitoring report forms to make them more convenient for you and to enable the WMP to record and retrieve the data more efficiently. There will be two report forms: one for quarterly sampling and one for the annual sample (which is taken in lieu of the second quarter sample). Please find the two forms enclosed.

Two new parameters have been added to the annual sampling list. These are Total Organic Halogen (TOX) and Total Organic Carbon (TOC). These indicator parameters will detect the presence of a broad range of organic compounds.

The WMP has also updated the Technical Bulletin entitled "Collection & Analysis of Water Samples." Please direct that all samples be collected and analyzed in accordance with the new guidelines. A copy of the Technical Bulletin should be conveyed to the laboratory which conducts your sampling and analysis as soon as possible.

40241261



SUPERFUND RECORDS

DNR 0295

Mr. Canney
Page 2
May 10, 1989

Documents

The following document is attached hereon and made an official part of your permit:

"Monitoring Program for the West Lake Sanitary Landfill," dated May 1, 1989, prepared by the Waste Management Program, Department of Natural Resources (with attachment entitled "Collection and Analysis of Water Samples, dated February, 1989).

Conditions

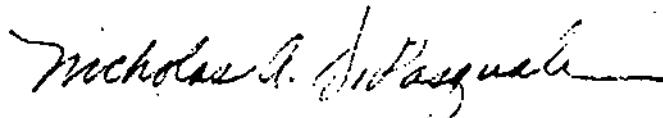
The following condition is an integral part of the permit. Compliance with this condition shall, in part, determine compliance with your permit.

Failure to comply with any aspect of this program may be viewed as a violation of a condition of the solid waste disposal area permit.

Should you have any questions or comments, please contact Ms. Jan Neher of the DNR-WMP, P.O. Box 176, Jefferson City, MO 65102, or call (314) 751-3176.

Sincerely,

DIVISION OF ENVIRONMENTAL QUALITY



Nicholas A. Di Pasquale, Director
Waste Management Program

NAD:jnt

Enclosure

cc: SLRO

MONITORING PROGRAM FOR THE
WESTLAKE SANITARY LANDFILL
MAY 1, 1989

A. Monitoring Points

The monitoring point (subsurface) listed below is that for which your landfill is responsible for sampling and analyzing. Both the current name, number or designation (as according to our records) and a new four digit number are listed for each point. The four digit number is that which will appear on the computer reporting forms (see Section E) and should be used in any future correspondence, along with the permit number.

<u>PERMIT NUMBER</u>	<u>CURRENT MONITORING WELL DESIGNATION</u>	<u>NEW FOUR DIGIT MONITORING NUMBER</u>
118912	GMMW 4\III	1201
	14\III	1202
	17\IV	1203

B. Frequency

All surface water sampling points and groundwater monitoring wells are to be sampled on a quarterly basis. An annual sample must be collected and analyzed for an extended list of parameters during the second quarter, with the results submitted by the end of August. Results of the sample analysis must be submitted on the WMP form. Following are the time frames for collection of water samples and submittal of the results to the WMP (by quarter):

First Quarter:

Letters and forms mailed by Waste Management Program (WMP) by January 15
Samples to be taken by the end of February
Forms submitted by the end of March

Second Quarter (Annual Sample):

Letters and forms mailed by WMP by April 15
Samples to be taken by the end of May
Forms submitted by the end of August

Third Quarter:

Letters and forms mailed by WMP on July 15
Samples to be taken by the end of August
Forms submitted by the end of September

Fourth Quarter:

Letters and forms mailed by WMP by October 15
Samples to be taken by the end of November
Forms submitted by the end of December

Monitoring report forms must be submitted to:

Department of Natural Resources
Waste Management Program-Enforcement Section
P.O. Box 176
Jefferson City, MO 65102
(314) 751-3176

C. Parameters

Following are the parameters that samples are to be analyzed for during the quarterly, annual and background sampling. Background sampling is to be performed prior to initiating operation of a new landfill or newly permitted areas where the monitoring points are located. Background sampling should be submitted on the WMP computer reporting form. This form should be labeled "Background." As stated previously, annual sampling is to be conducted during the second quarter.

ANNUAL/BACKGROUND LIST

pH
conductivity
cobalt
total dissolved solids
chloride
sulfate
fluoride
total hardness - calculated
barium
boron
cadmium
chromium
copper
calcium
sodium

QUARTERLY LIST

chloride
COD
iron
pH
conductivity
total dissolved solids
water level in the well (report
from the reference point to the
water surface)

COD
ammonia as N
nitrate and nitrite as N
total phosphorus
mercury
iron
arsenic
lead
selenium
silver
manganese
zinc
water level in the well (measured from
the reference point to the water surface)
magnesium
well depth (measured from the reference
point to the bottom of the well)
total organic carbon (TOC)
total organic halogen (TOX)

ALL METALS ARE DISSOLVED AND SHOULD FIELD FILTERED

D. Collection, Preservation and Analysis

See the attached Technical Bulletin for the correct procedures. Water levels are to be recorded prior to bailing. Failure to follow these procedures may be considered a violation of a condition of the solid waste disposal area permit and may void the submitted monitoring report.

E. Report Form

To insure that all required information is submitted and to remove any confusion between the Waste Management Program, the landfill and private laboratories, reporting forms from the program will be sent to the landfill at the beginning of each quarter and for background samples when new points are designated. These forms are to be completed by the collector and the lab performing the analysis. The original is to be sent to the address noted on the lower left-hand corner for the quarterly report and top center on the annual reports. A report need not be sent to the regional office.

The items listed below will be completed by the department prior to your receiving the form.

1. Facility Name
2. Quarter Number
3. Site Name
4. Monitoring Point Number

The form indicates the sensitivity of analysis for each parameter. The measurements are reported in units of milligrams per liter (mg/l) or micrograms per liter (ug/l), depending on the parameter. If a monitoring point is dry, report the water level in the well as "0.0." If the well has not recharged sufficiently to collect a sample after 24 hours, it should be reported as "RECHARGES TOO SLOWLY." Do not leave the form blank!!!

Any incomplete form which is submitted may render the report void and necessitate repeating the sampling. The sections labeled "Comments" should include any damage to the monitoring well or any peculiar sample characteristic, such as organic odor or orange-rusty color.